

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A sputtering target, comprising a copper alloy sputtering target containing 0.01 to less than 0.5wt% of at least one element selected from Al and Sn, at least one of Mn or Si or both in a total amount of 0.03wtppm to 0.25wtppm, and at least one element selected from the group consisting of Sb, Zr, Ti, Cr, Ag, Au, Cd, In and As in a total amount of 1.0wtppm or less.

Claims 2-15 (canceled).

Claim 16 (currently amended): A sputtering target according to claim 1, wherein said copper alloy sputtering target contains 0.05 to 0.2wt% of said at least one element selected from Al and Sn.

Claim 17 (previously presented): A sputtering target according to claim 16, wherein said total amount of said at least one element selected from the group consisting of Sb, Zr, Ti, Cr, Ag, Au, Cd, In and As is 0.3wtppm or less.

Claim 18 (previously presented): A sputtering target according to claim 17, wherein inevitable impurities, excluding gas components, in said copper alloy sputtering target are 1wtppm or less.

Claim 19 (previously presented): A sputtering target according to claim 1, wherein said total amount of said at least one element selected from the group consisting of Sb, Zr, Ti, Cr, Ag, Au, Cd, In and As is 0.13wtppm to 1.0wtppm.

Claim 20 (previously presented): A sputtering target according to claim 19, wherein said total amount of said at least one element selected from the group consisting of Sb, Zr, Ti, Cr, Ag, Au, Cd, In and As does not exceed 0.5wtppm.

Claim 21 (previously presented): A sputtering target according to claim 20, wherein said total amount of said at least one element selected from the group consisting of Sb, Zr, Ti, Cr, Ag, Au, Cd, In and As does not exceed 0.3wtppm.

Claim 22 (previously presented): A sputtering target according to claim 1, wherein inevitable impurities, excluding gas components, in said copper alloy sputtering target are 10wtppm or less.

Claim 23 (previously presented): A sputtering target according to claim 22, wherein said inevitable impurities, excluding gas components, are 1wtppm or less.

Claim 24 (previously presented): A sputtering target according to claim 1, wherein said copper alloy sputtering target contains 0.05wtppm or less of Na and K, respectively; wherein said copper alloy sputtering target contains 1 wtppb or less of U and Th, respectively; and

wherein said copper alloy sputtering target contains 5wtppm or less of oxygen, 2wtppm or less of nitrogen, and 2wtppm or less of carbon.

Claim 25 (previously presented): A sputtering target according to claim 1, wherein said copper alloy sputtering target contains 0.02wtppm or less of Na and K, respectively; wherein said copper alloy sputtering target contains 0.5wtppb or less of U and Th, respectively; and wherein said copper alloy sputtering target contains 1wtppm or less of oxygen, 1wtppm or less of nitrogen, and 1wtppm or less of carbon.

Claim 26 (previously presented): A sputtering target according to claim 1, wherein said copper alloy sputtering target has an average crystal grain size of 100 μ m or less and an average grain size variation within $\pm 20\%$.

Claims 27-34 (canceled).

Claim 35 (currently amended): A copper alloy sputtering target for forming a thin film seed layer for semiconductor wiring, consisting of:

0.01 to less than 0.5wt% of ~~at least one element selected from Al and Sn~~ for

preventing coagulation upon plating on the seed layer;

at least one of Mn or Si or both in a total amount of 0.03wtppm to 0.25wtppm for

improving oxidation resistance;

at least one element selected from the group consisting of Sb, Zr, Ti, Cr, Ag, Au,

Cd, In and As in a total amount of 0.13wtppm to 1.0wtppm for improving
oxidation resistance; and

a remainder being copper.

Claim 36 (previously presented): A copper alloy sputtering target according to claim 35
wherein said at least one of Mn or Si or both is Mn.

Claim 37 (currently amended): A copper alloy sputtering target according to claim 35,
wherein said copper alloy sputtering target contains 0.05 to 0.2wt% of ~~said at least one element~~
~~selected from Al and Sn~~, and wherein said total amount of said at least one element selected from
the group consisting of Sb, Zr, Ti, Cr, Ag, Au, Cd, In and As is 0.13wtppm to 0.3wtppm.

Claim 38 (previously presented): A copper alloy sputtering target according to claim 35,
wherein said copper alloy sputtering target has an average crystal grain size of 100 μ m or less and
an average grain size variation within $\pm 20\%$.

Claims 39-42 (canceled).